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Low reflectivity glass for windows etc. - has thin coating film of fluorosilicate cpd.

Patent Assignee: ASAHI GLASS CO LTD (ASAG)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
JP 58213653	A	19831212	JP 8292208	A	19820601		198404 B

Priority Applications (No Type Date): JP 8292208 A 19820601

Patent Details:

Patent	Kind	Lan	Pg	Filing Notes	Application	Patent
JP 58213653	A		4			

Abstract (Basic): JP 58213653 A

The glass is obtd. by forming a thin film of less than 1 micron consisting of fluorosilicate cpd. of Rf gp-contg. amine of formula (I) on the surface of glass.

((RfQ)aN(+)XbY4-a-b)c.Z(+)2-c.(SiFdYe)2(-) (I)

Rf is 1-20C polyfluoroalkyl gp. opt. contg. one or more ether bond, Q is divalent organic; X, Y and Z are each H or monovalent organic gp.; a is integer of 1-3, b is 0 or integer of 1-3, c is integer of 1 or 2, d is integer of 4-6, and e is 0 or integer of 1-2.

The reflectivity of glass in visible ray region is 0.5-0.7% in contrast with 4.2% of soda lime glass. The thin film has 3H-4H pencil hardness in contrast with 4B of the film made of Rf group-contg. silane cpd. The glass is useful for e.g. window glass of building, automobile, etc.

Title Terms: LOW; REFLECT; GLASS; WINDOW; THIN; COATING; FILM; FLUORO; SILICATE; COMPOUND

Derwent Class: A26; E11; L01

International Patent Class (Additional): C03C-017/30; C07F-007/02

File Segment: CPI

Manual Codes (CPI/A-N): A10-E08; A12-B05; A12-W12D; E05-E; E10-A22; E10-B04E; E31-P; L01-G04; L01-L01; L01-L02

Plasdoc Codes (KS): 0013 0202 3002 0210 0231 1279 1630 1634 2002 2014 2592 2622 2654 2695 3267 2827 3300

Polymer Fragment Codes (PF):

001 014 028 039 04- 05- 062 064 147 157 229 231 240 31- 334 336 37- 477 50& 516 521 551 560 561 57& 575 596 613 615 672 688 720

Chemical Fragment Codes (M3):

01 H1 H100 H102 H103 H181 H6 H601 H607 H608 H609 H681 H682 H683 H684 H685 H689 L722 M210 M220 M225 M226 M231 M232 M233 M273 M280 M281 M282 M283 M311 M312 M313 M314 M315 M316 M321 M322 M323 M331 M332 M333 M334 M342 M343 M344 M362 M391 M392 M393 M416 M417 M620 M640 M771 M782 M903 Q452

02 B314 B414 B720 B741 B742 B752 B760 B831 C009 C100 C101 C803 C804 C805 C806 C807 M210 M220 M225 M226 M231 M232 M233 M250 M280 M281 M282 M320 M411 M417 M510 M520 M530 M540 M620 M630 M771 M782 M903 Q452